

Adarsh Alex

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OBJECTIVE	Seeking to leverage my experience and skills in Software Engineering to develop big data analytics and scalable applications.
EDUCATION	<p>Wright State University, Dayton, Ohio, USA</p> <p>Master of Science (M.S.) in Computer Science Aug 2013 – Jul 2016</p> <ul style="list-style-type: none">▪ Research areas: Exploiting knowledge encoded in Knowledge Graphs to enhance Text Mining, Natural Language Processing and Applied Machine Learning▪ Thesis: Detecting and Classifying Implicit Entity Mentions in Tweets▪ Advisor: Dr. Amit P. Sheth <p>Mumbai University, Mumbai, Maharashtra, India</p> <p>Bachelor of Engineering (B.E.) in Computer Engineering Aug 2009 – May 2013</p>
SKILLS	<ul style="list-style-type: none">▪ Programming Languages: Java, Java EE, Python, C++, C, Scala, Ruby▪ Databases: SQL, PL/SQL(Oracle), MySQL, MongoDB, Neo4j.▪ Web Services: JAX-WS Web Service, Restful Web Service (REST)▪ Big Data Technologies: Apache Hadoop(Mapreduce), Apache Storm.▪ Web Technologies: HTML, CSS, Javascript.▪ Tools and Software: NLTK, Stanford CoreNLP, Gensim, OpenNLP, Weka, scikit-learn, word2vec, git, svn.▪ Operating Systems: Linux, Windows, Mac.
EXPERIENCE	<p>Kno.e.sis Center, Wright State University</p> <p>Graduate Research Assistant, Computer Science Department Aug 2014 – Jul 2016</p> <ul style="list-style-type: none">▪ Identifying and linking Implicit Entity Mentions in Tweets and Electronic Medical Records (EMR) using background knowledge.▪ Leveraged machine learning techniques for filtering out noisy tweets in real time. <p>ezDI, LLC, Ahmedabad, Gujarat, India</p> <p>Research Intern May 2014 – Aug 2014</p> <ul style="list-style-type: none">▪ Explored and developed approaches for automatic knowledge acquisition from Electronic Medical Records to enhance knowledge graphs using semantic techniques and domain knowledge.
PROJECTS	<p>Detecting and Classifying Implicit Entities in Tweets Mar 2015 – Jul 2016</p> <ul style="list-style-type: none">▪ Developed a solution that leverages background knowledge from crowd-sourced knowledge bases like Wikipedia and DBpedia to identify implicit entity mentions in unstructured text (Tweets) in real time. <p>Forecasting Property Prices May 2015 – Jul 2015</p> <ul style="list-style-type: none">▪ Developed a multi-variate linear regression model using gradient descent algorithm to predict housing prices. <p>Recognizing Handwritten Digits May 2015 – Jul 2015</p> <ul style="list-style-type: none">▪ Developed a three layer feed-forward neural network to recognize handwritten digits. <p>Real Time Tweet Filtering Aug 2014 – Dec 2014</p> <ul style="list-style-type: none">▪ Implemented an analysis pipeline engine for streaming data (Tweets) using Twitter Streaming API, Apache Storm and Mongo DB.▪ Also developed a framework for real time noise filtering and feedback learning using Apache Storm and Weka. <p>Knowledge Acquisition from EMR Documents May 2014 – Aug 2014</p> <ul style="list-style-type: none">▪ Designed and implemented a centralized web application for gleaning meaningful relationships from Electronic Medical Records, using the J2EE framework.

PUBLICATIONS

- Adarsh Alex, Sujan Perera, Amit Sheth “**Detecting and Classifying Implicit Entity Mentions in Tweets**” *Technical Report* [Work in Progress].
- Sujan Perera, Pablo N. Mendes, Amit P. Sheth, Krishnaprasad Thirunarayan, Adarsh Alex, Christopher Heid, Greg Mott “**Implicit Entity Recognition in Clinical Documents**,” *In proceedings of The Fourth Joint Conference on Lexical and Computational Semantics (*SEM)*, Jun 2015.
- Sujan Perera, Pablo N. Mendes, Adarsh Alex, Amit P. Sheth, Krishnaprasad Thirunarayan “**Implicit Entity Linking in Tweets**,” *In Extended Semantic Web Conference (ESWC)*, May 2016.